

IN THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims:

1. (Currently Amended) A coiled electrode for an electrochemical cell, comprising:
 - a first segment of electrode material forming an outer winding of the coiled electrode, the first segment being of a first thickness between an outside surface and an inside surface and having first and second ends;
 - a second segment of electrode material forming inner windings of the coiled electrode, the second segment being of a second thickness between an outside surface and an inside surface that is greater than the first thickness and having first and second ends; and
 - a solid current collector of a conductive material overlaying the outside surface of both the first segment and the second segment of electrode material and dimensioned to be coextensive with the outer winding of the coiled electrode, the collector being directly connected to the second segment;wherein the first segment is joined directly to the second segment proximate one end of the first segment and proximate one end of the second segment,
wherein the joined ends of the first and second electrode material segments overlap to form an overlapping region,
a reinforcing member coupled to the overlapping region,
wherein the reinforcing member comprises an alkali metal.

2. Cancelled

3. (Currently Amended) A coiled electrode according to claim [[2]] 1, further comprising: a spacer member disposed on a portion of inside surface of the first segment of electrode material.
4. (Original) A coiled electrode according to claim 3, wherein said spacer member has a shape corresponding to the current collector and at least partially extends beyond a peripheral edge of the current collector.
5. (Original) A coiled electrode assembly according to claim 4, wherein said spacer member at least partially overlaps at least a portion of the overlapping region.
6. (Currently Amended) A coiled electrode according to claim [[2]] 1, further comprising a dielectric separator disposed over at least an exposed surface of the current collector.
7. (Previously Presented) A coiled electrode according to claim 6, wherein said dielectric separator extends over substantially the outer winding of the coiled electrode.
8. (Original) The coiled electrode according to claim 7, wherein said dielectric separator further comprises: at least two layers of separator material.
9. (Original) A coiled electrode according to claim 8, wherein a peripheral edge of said at least two layers of separator material are sealed together to form a dielectric pouch around said electrode assembly.

10. (Currently Amended) A coiled electrode according to claim [[2]] 1, wherein a portion of said current collector covers at least a portion of the overlapping region.

11. (Previously Presented) A coiled electrode according to claim 10, wherein said current collector is disposed closely adjacent to a terminal end of the outer winding.

12. (Currently Amended) A coiled electrode according to claim [[2]] 1, wherein at least a portion of the current collector is disposed adjacent at least a portion of the overlapping region.

13. (Original) A coiled electrode according to claim 3, wherein said spacer member comprises at least two sheets of material.

14. (Currently Amended) A coiled electrode according to claim [[2]] 1, wherein said elongated electrode assembly comprises a lithium material.

15. (Original) A coiled electrode according to claim 14, wherein said current collector comprises: a nickel material, a copper material, a titanium material, or an alloy thereof.

16.-18. (Cancelled)

19. (Currently Amended) A coiled electrode according to claim [[18]] 1, wherein said alkali metal comprises a lithium material.